Dementia: drugs used to relieve behavioural symptoms

People with dementia may at some point in their illness develop symptoms such as depression, restlessness, aggressive behaviour and psychosis (delusions and hallucinations). While it is important to try to understand and address the underlying reasons for these problems, it may be necessary at times to prescribe medication. This information sheet describes the different types of drugs that may be prescribed.

Avoid drugs unless they are really necessary
Before any of the drugs mentioned in this information sheet are prescribed it is essential to ensure that the person with dementia is physically healthy enough, comfortable and well cared for. Whenever possible, the person should be helped to lead an active life, with interesting and stimulating daily activities. By minimizing distress and agitation it is often possible to avoid the use of drugs altogether. If, after due consideration, drugs are considered necessary remember:

- All drugs have side-effects which may worsen symptoms.
- The prescribing doctor (usually the general practitioner, GP) should be asked why the drug is being prescribed, what the side-effects may be and what you should do if they occur.
- Don’t assume that a drug, which has proved to be useful at one point in time, will continue to be effective. Dementia is a degenerative condition. The chemistry and structure of the brain will change during the course of the illness.
- It is important to bear in mind that certain combinations of drugs may counteract each other. It may be worth discussing this point with your doctor if other medications are being taken.

Golden rules of prescribing
Drugs will be more effective if they are taken exactly as prescribed by the doctor, in the correct dose and monitored regularly for side-effects. If symptoms are difficult to control the GP may refer to a specialist for further advice.

- Some drugs need to be taken regularly to have an effect – for example, antidepressants. Other drugs such as hypnotics or anxiety-relieving drugs may be more effective when taken on an 'as needed' basis. This should be done after discussion with the doctor.
- Do not expect immediate results. Benefits may take several weeks to appear, particularly with antidepressants.
- Side-effects may occur early or late in the course of treatment – it is important to ask the doctor what to expect.
Side-effects are usually related to the dose. The doctor will usually 'start low and go slow', gradually increasing the dose until the desired effects are achieved.

Once treatment has been established it is important that it is reviewed regularly. Take all medications to clinic and hospital appointments.

Remember that some of the drugs taken to control behavioural symptoms can be dangerous if accidentally taken in large quantities. Make sure medicines are kept safe and secure.

Names of drugs
All drugs have at least two names – a generic name which identifies the substance and a proprietary (trade) name which may vary depending upon the company, which has manufactured it. Generic names are used in this information sheet – at the end you will find a list of drugs in common use, giving both the generic and proprietary names.

Drugs for treating agitation, aggression and psychotic symptoms
Major tranquillizers (also known as neuroleptics or antipsychotics) are drugs which were originally developed to treat younger people with schizophrenia. They are frequently prescribed to people with dementia for symptoms including agitation, delusions (disturbed thoughts and false beliefs), hallucinations (seeing and hearing things which are not there), sleep disturbance and aggression. Commonly used drugs include thioridazine and haloperidol. The use of tranquillisers in cases of dementia remains controversial.

Side-effects
- Side-effects include excessive sedation, dizziness, unsteadiness and symptoms that resemble those of Parkinson’s disease (shakiness, slowness and stiffness of the limbs). Tranquillisers may be dangerous for those with dementia with Lewy bodies or Parkinson’s disease.
- A new generation of major tranquillisers may be less prone to produce troublesome side-effects – these include risperidone, olanzapine and quetiapine.
- Whichever drug is used, treatment with major tranquillisers should be regularly reviewed and the dose reduced or the drug withdrawn if side effects become unacceptable.
- Excessive sedation with major tranquillisers may reduce symptoms such as restlessness and aggression, at the expense of reducing mobility and worsening confusion.
- Anticonvulsant drugs such as sodium valproate and carbamazepine are sometimes also used to reduce aggression and agitation, as is the antidepressant drug trazodone.
Drugs for treating depression
Symptoms of depression are extremely common in dementia. In the early stages they are usually a reaction to the person’s awareness of their diagnosis. In the later stages of the illness, depression may also be the result of reduced chemical transmitter function in the brain. Both types of depression can be effectively treated with antidepressants, but care must be taken to ensure that this is done with the minimum of side-effects.

Antidepressants may be helpful not only in improving persistently low mood but also in controlling the irritability and rapid mood swings which often occur in dementia and which are also seen following a stroke.

Once started, the doctor will usually recommend prescribing antidepressant drugs for a period of at least six months.

In order for them to be effective, it is important that they are taken regularly without missing any doses.

Improvement in mood typically takes two to three weeks or more to occur, whereas side-effects may appear within a few days of starting treatment.

Side-effects
- Tricyclic antidepressants such as amitriptyline, imipramine or dothiepin, which are commonly used to treat depression in younger people, are likely to increase confusion in someone with dementia.
- They might also produce dry mouth, blurred vision, constipation, difficulty in urination (especially in men) and dizziness on standing, which may lead to falls and injuries.
- Newer antidepressants are preferable as first line treatments of depression in dementia.
- Drugs such as fluoxetine, paroxetine, fluvoxamine, sertraline and citalopram (known as the selective serotonin re-uptake inhibitors) do not have the side-effects of tricyclics and are well tolerated by elderly people. They can produce headaches and nausea especially in the first week or two of treatment.

Drugs for treating anxiety
Anxiety states, accompanied by panic attacks and fearfulness may lead to demands for constant company and reassurance.

Short-lived periods of anxiety, for example in response to a stressful event, may be helped by a group of drugs known as benzodiazepines.

Continuous treatment in excess of two to four weeks is not advisable because dependency can occur, making it difficult to stop the medication without withdrawal symptoms.
Side effects

- There are many different benzodiazepines, some with a short duration of action such as lorazepam and oxazepam and some with longer action such as chlordiazepoxide and diazepam. All of these drugs may cause excessive sedation, unsteadiness, a tendency to fall and they may accentuate confusion and memory deficits that are already present.

- Major tranquillisers (see above) are often used for severe or persistent anxiety.

- If taken for long period these drugs can produce a side-effect called tardive dyskinesia which is recognized by persistent involuntary chewing movements and facial grimacing. This may be irreversible, but is more likely to disappear if it is recognized early and the medication causing the problem stopped.

Drugs for treating sleep disturbance

Sleep disturbance, and in particular persistent wakefulness and night-time restlessness, can be very disturbing for carers. Many of the drugs commonly prescribed for people with dementia can cause excessive sedation during the day, leading to an inability to sleep at night. Increased stimulation during the day can reduce the need for sleep inducing medications (hypnotics) at night.

Hypnotics are generally more helpful in getting people off to sleep at bedtime than they are in the night. They are usually taken 30 minutes to one hour before going to bed.

Chlormethiazole is generally well tolerated by elderly people, although some cannot take it because it produces an unpleasant itching sensation in the nose. Benzodiazepines (see section on drugs for treating anxiety) such as temazepam are frequently prescribed. Thioridazine is also sometimes used for night-time sedation (see section on drugs for treating agitation).

Side-effects

- If excessive sedation is given at bedtime, the person may be unable to wake to go to the toilet and incontinence may occur, sometimes for the first time. If they do wake through the night despite sedation, increased confusion and unsteadiness may occur.

- Hypnotics are often best used intermittently rather than regularly when the carer and person with dementia feel that a good night’s sleep is necessary for either or both of them. The use of such drugs should be regularly reviewed by the doctor.

Anti-dementia drugs

The new generation of anticholinesterase drugs were originally developed to improve memory and the ability to carry out day-to-day living activities. Recent evidence suggests that they also
have beneficial effects on behavioural symptoms, particularly apathy (lack of drive), mood and confidence, delusions and hallucinations.

Taking anti-dementia drugs may therefore reduce the need for other forms of medication. However, in higher doses these anti-dementia drugs may occasionally increase agitation and produce insomnia with nightmares.

**Commonly prescribed drugs**
This list includes the names of many (but not all) of the different medications available. New drugs are appearing all the time and you may need to ask your doctor what type of medication is being prescribed. The generic name is given first, followed by some of the common proprietary (trade) names.

**Major Tranquillisers**
- Amisulpride (Solian)
- Chlorpromazine (Largactil)
- Fluphenazine (Modecate)
- Haloperidol (Haldol, Serenace)
- Olanzapine (Zyprexa)
- Promazine (Promazine)
- Quetiapine (Seroquel)
- Risperidone (Risperdal)
- Sertindole (Serdolect)
- Sulpiride (Dolmatil, Sulparex, Sulpitil)
- Thioridazine (Melleril)
- Trifluoperazine (Stelazine)
- Zetepine (Zoleptil)
- Zuclopenthixol (Clopixol)

**Antidepressants**
- Amitriptyline (Lentizol)
- Amoxapine (Asendis)
- Citalopram (Cipramil)
- Dothiepin (Prothiaden)
- Doxepin (Sinequan)
- Fluoxetine (Prozac)
- Fluvoxamine (Faverin)
- Imipramine (Tofranil)
- Lofepramine (Gamanil)
- Mirtazapine (Zispin)
- Nefazodone (Dutonin)
- Nortriptyline (Allegron)
Paroxetine (Seroxat)
Sertraline (Lustral)
Trazodone (Molipaxin)
Venlafixine (Efexor)

Other mood stabilizers
Lithium carbonate (Camcolit, Priadel, Liskonum)

Anxiety-relieving drugs
Alpraxolam (Xanax)
Buspirone (Buspar)
Chlordiazepoxide (Librium)
Diazepam (Valium)
Lorazepam (Ativan)
Oxazepam (Oxazepam)

Hypnotics
Chloral hydrate (Welldorm)
Clomethiazole (Heminevrin)
Flurazepam (Dalmane)
Nitrazepam (Mogadon)
Temazepam (Temazepam)
Zopiclone (Zimovane)
Zolpidem (Stilnoct)

Antidementia drugs
Donepezil (Aricept)
Rivastigmine (Exelon)
Galantamine (Reminyl)

Anticonvulsant drugs
Sodium valproate (Epilim)
Carbamazepine (Tegretol)

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